clEF Data in a Snap.

Identity and Charge Heterogeneity

Meet Maurice C.™



He runs cIEF applications on your mAbs, ADCs, and vaccines faster than anything out there. We're talking 10 minutes per sample and method development in a day. He'll even give you data on their charge variants. Already use an iCE system? Method transfer to Maurice is a breeze!



FIGURE 1. Just add anolyte and catholyte to a cIEF cartridge and pop it in Maurice. Then drop in your sample vials or a 96-well plate, and hit start — he does the rest!

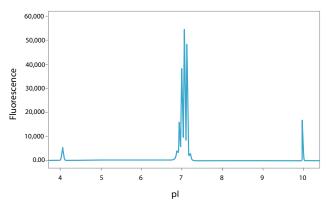


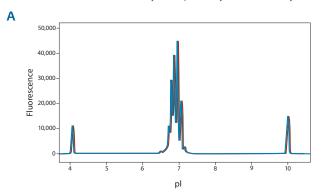
FIGURE 2. Charge profile of mAb. 0.25 mg/mL mAb prepared with 4% 3–10 Pharmalyte, 10 mM arginine, iminodiacteic acid (IDA) and 2 M urea, pl markers 4.05 and 9.99. Pre-focused at 1500 V for 1 min followed by focusing for 7 min at 3000 V.



Maurice C. datasheet

More iCE

Maurice uses iCE technology for his cIEF methods. Translation? You get crazy reliable and reproducible data day in and day out with single-digit CVs, and resolution that trumps HPLC. Here's where he really ups the ante: he gives you absorbance and native fluorescence data on every sample so you can analyze unmodified molecules with sensitivity down to 0.7 µg/mL!



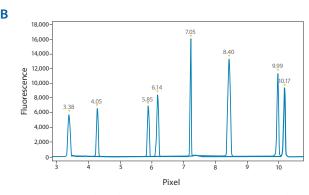


FIGURE 3. (A) cIEF application performance over 100 injections with peak area CVs consistently less than 4%. 0.25 mg/mL mAb prepared with 4% 3–10 Pharmalyte, 10 mM arginine and iminodiacteic acid, pl markers 4.05 and 9.99. (B) Six overlaid injections of peptide markers at 0.0015-0.003 mg/mL, 4% 3–10 Pharmalyte, 10 mM arginine and iminodiacteic acid, with flanking pl markers 3.38 and 10.17.

SPECIFICATIONS

DESCRIPTION	cIEF SPECIFICATION
Minimum Sample Volume	50 μL
Sample Delivery	Vacuum
Typical Separation Time	6-10 min (molecule-dependent)
Detection Capability	UV Absorbance at 280 nm, Fluorescence: Ex 280 nm, Em 320–450 nm
Typical Voltage	Pre-focusing: 1500 V, focusing: 3000 V
Sample Injections per Cartridge	100
Maximum Sample Injections per Batch	100 guaranteed, 200 maximum
pl Range	2.85–10.45
pl CV	1%
CV for Peaks >10% Composition	≤5% (Intra-batch), ≤6% (Inter-batch)
pl Resolution	0.05 pl units (for wide range 3–10 ampholytes)
Dynamic Range	2 logs
Linearity	>0.995
Sensitivity (LOD)	0.7 μg/mL (Native fluorescence) 3.0 μg/mL (Absorbance) (Values based on a monoclonal antibody)
Sample Tray Options	96-well plates or 48 vials
Dimensions	44cm H x 42cm W x 61cm D
Weight	46 kg (100 lb)

Maurice C: part #090-002

